

FORM PTO-1390  
(REV 12-2001)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTORNEY DOCKET NO.  
59643.00549TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371

DATE: December 20, 2004

U.S. APPLN. NO.  
(IF KNOWN, SEE 37 C.F.R. 1.5)

407518505

INTERNATIONAL APPLICATION NO.  
PCT/IB2002/003198INTERNATIONAL FILING DATE  
21 June 2002

PRIORITY DATE CLAIMED

TITLE OF INVENTION: SIGNAL PATH DETECTION FOR WIRELESS NETWORKS INCLUDING REPEATERS

APPLICANT(S) FOR DO/EO/US: Sami POYKKO

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.  
(THE BASIC FILING FEE IS ATTACHED)
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This express request to begin national examination procedures [35 U.S.C. 371(f)] at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed [35 U.S.C. 371(c)(2)]
  - a. ☒ is transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☒ has been transmitted by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed [35 U.S.C. 371(c)(2)].
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 [35 U.S.C. 371(c)(3)]
  - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☐ have been transmitted by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 [35 U.S.C. 371(c)(3)].
9. ☐ An oath or declaration of the inventor(s) [35 U.S.C. 371(c)(4)].
10. ☒ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 [35 U.S.C. 371(c)(5)].

Items 11 - 19 below concern other document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98, along with form PTO-1449 and 5 References.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included.
13. ☒ A FIRST preliminary amendment.  
☐ A SECOND or SUBSEQUENT preliminary amendment.
14. ☐ A substitute specification.
15. ☐ A change of power of attorney and/or address letter.
16. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
17. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
18. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
19. ☒ Other items or information: CHECK NO. 12327; Formal Drawings (Figs. 1-3; 3 sheets); PCT/ISA/210; PCT/IPEA/409; PCT/IPEA/401; PCT/IB/308; PCT/RO/101

U.S. APPLN. NO. (IF KNOWN, SEE 37 C.F.R. 1.10) <b>10/518505</b>		INTERNATIONAL APPLICATION NO. PCT/IB2002/003198		ATTORNEY DOCKET NO. 59643.00549 DATE: December 20, 2004	
20. <input checked="" type="checkbox"/> The following fees are submitted: Basic National Stage Fee .....\$300.00 National Stage Search Fee.....\$500.00 National Stage Examination Fee.....\$200.00				CALCULATIONS   PTO USE ONLY	
<b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>				\$ 1,000.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date [37 C.F.R. 1.492(e)].					
Claims	Number Filed	Number Extra	Rate		
Total Claims	34 - 20 =	14	X \$ 50.00	\$ 700.00	
Independent Claims	2 - 3 =	0	X \$ 200.00		
Multiple dependent claim(s) (if applicable)			+ \$360.00		
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250.00 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
- 100 =	/50 =		X \$250.00		
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$ 1,700.00	
Reduction by one-half for filing by small entity, if applicable. <b>Applicant claims small entity status.</b> See 37 CFR 1.27.					
<b>SUBTOTAL =</b>				\$ 1,700.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date [37 C.F.R. 1.492(f)]. +					
<b>TOTAL NATIONAL FEE =</b>				\$ 1,700.00	
Fee for recording the enclosed assignment [37 C.F.R. 1.21(h)]. The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property +					
<b>TOTAL FEES ENCLOSED =</b>				\$ 1,700.00	
				Amount to be refunded	\$
				Charged	\$

U.S. APPLN. NO. (IF KNOWN) SEE 37 C.F.R. 1.501 <b>10/518505</b>	INTERNATIONAL APPLICATION NO. PCT/IB2002/003198	ATTORNEY DOCKET NO. 59643.00549 DATE: December 20, 2004
---	--	--

a. ☒ A check in the amount of \$1,700.00 to cover the above fees is enclosed.

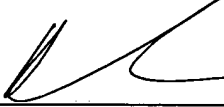
b. ☐ Please charge Counsel's Deposit Account No. 50-2222 in the amount of \$\_\_\_\_\_ to cover the above fee.  
A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Counsel's Deposit Account No. 50-2222.

NOTE: Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, a petition to revive [37 C.F.R. 1.137(a) or (b)] must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

**Customer Number 32294**  
**SQUIRE, SANDERS & DEMPSEY LLP**  
8000 Towers Crescent Drive  
14<sup>th</sup> Floor  
Tysons Corner, Virginia 22182-2700  
Telephone: 703-720-7800  
Fax: 703-720-7802

  
**Douglas H. Goldhush**  
Reg. No. 33,125